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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/560,255		12/12/2005	Takashi Hiramatsu	M1071.1950	4999	
32172	7590	11/16/2006		EXAM	EXAMINER	
DICKSTEI	-	-	THOMAS, ERIC W			
1177 AVEN NEW YORK		THE AMERICAS (6T 10036-2714	ART UNIT	PAPER NUMBER		
	,			2831		
				DATE MAILED: 11/16/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/560,255	HIRAMATSU ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Eric Thomas	2831	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with t	he correspondence address	
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Status	·			
2a)□	Responsive to communication(s) filed on 10 J.  This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowal closed in accordance with the practice under the second seco	s action is non-final.  nce except for formal matters	·	
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 12 December 2005 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration.  or election requirement.  er.  are: a)⊠ accepted or b)□ ot drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	).
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached O	fice Action or form PTO-152.	
12)⊠ a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea see the attached detailed Office action for a list	ts have been received. ts have been received in Appl rity documents have been rec u (PCT Rule 17.2(a)).	ication No eived in this National Stage	,
2) Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 12/05, 7/06.	Paper No(s)/M	mary (PTO-413) ail Date. nal Patent Application	

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## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims ★ are rejected under 35 U.S.C. 103(a) as being unpatentable over Hori et al. (US 6,310,761) in view of JP 2000-058378('378).

Hori et al. disclose a dielectric ceramic composition represented by 100  $(Ba)_m TiO_3 + aMnO + bCuO + cSiO_2 + dRe_2O_3$  wherein coefficients 100, m, a, b, c, d each represent molar amount; Re represents at least one element Y, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, and Yb and wherein  $0.990 \le m \le 1.030$  a = 1.0, b = 2.0, c = 5.0, d = 3.0 (see abstract and Table 5).

Hori et al. disclose the claimed invention except for the main component comprises  $(Ba_{1-x}Ca_x)_mTiO_3$  wherein  $0.04 \le x \le 0.20$ .

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'378 teaches the use of a ceramic main component comprising  $(Ba_{1-x}Ca_x)_mTiO_3$  wherein  $0.04 \le x \le 0.20$ .

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a main component of  $(Ba_{1-x}Ca_x)_mTiO_3$  in the ceramic material of Hori et al., since such a modification would form a ceramic composition having high insulating resistance, and anti reduction property.

Regarding claim 2, the modified Hori et al. disclose in fig. 1, a laminated ceramic capacitor comprising a plurality of laminated dielectric ceramic layers (2a-2b); at least two internal electrodes, each being disposed between a different pair of adjacent dielectric ceramic layers; and at least two external electrodes (5-7) each of which is electrically connected to a different internal electrode, wherein the dielectric ceramic layers comprise the dielectric of claim 1.

Regarding claim 3, the modified Hori et al. disclose each of the internal electrodes comprises nickel.

Regarding claim 4, the modified Hori et al. disclose  $0.992 \le m \le 1.027$ ,  $0.042 \le a \le 4.8$ ,  $0.055 \le b \le 4.7$ ,  $0.25 \le c \le 7.8$ , and  $0.055 \le d \le 2.45$ , and ('378)  $0.042 \le x \le 0.19$ .

Regarding claim 5, the modified Hori et al. disclose  $1.001 \le m \le 1.011$ ,  $0.2 \le a \le 3.5$ ,  $0.1 \le b \le 2.5$ ,  $0.5 \le c \le 6$ , and  $0.2 \le d \le 1.5$ , and  $0.08 \le c \le 0.17$ .

Regarding claim 6, the modified Hori et al. disclose m =1.001, a = 0.2, b = 0.4, c = 2, and ('378) x = 0.08.

Regarding claim 7, the modified Hori et al. disclose in fig. 1, a laminated ceramic capacitor comprising a plurality of laminated dielectric ceramic layers (2a-2b); at least

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two internal electrodes, each being disposed between a different pair of adjacent dielectric ceramic layers; and at least two external electrodes (5-7) each of which is electrically connected to a different internal electrode, wherein the dielectric ceramic layers comprise the dielectric of claim 6.

Regarding claim 8, the modified Hori et al. disclose each of the internal electrodes comprises nickel.

Regarding claim 9, the modified Hori et al. disclose in fig. 1, a laminated ceramic capacitor comprising a plurality of laminated dielectric ceramic layers (2a-2b); at least two internal electrodes, each being disposed between a different pair of adjacent dielectric ceramic layers; and at least two external electrodes (5-7) each of which is electrically connected to a different internal electrode, wherein the dielectric ceramic layers comprise the dielectric of claim 5.

Regarding claim 10, the modified Hori et al. disclose each of the internal electrodes comprises nickel.

Regarding claim 11, the modified Hori et al. disclose in fig. 1, a laminated ceramic capacitor comprising a plurality of laminated dielectric ceramic layers (2a-2b); at least two internal electrodes, each being disposed between a different pair of adjacent dielectric ceramic layers; and at least two external electrodes (5-7) each of which is electrically connected to a different internal electrode, wherein the dielectric ceramic layers comprise the dielectric of claim 4.

Regarding claim 12, the modified Hori et al. disclose each of the internal electrodes comprises nickel.

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Regarding claim 13, the modified Hori et al. disclose Re is at least 2 of said elements.

Regarding claim 14, the modified Hori et al. disclose in fig. 1, a laminated ceramic capacitor comprising a plurality of laminated dielectric ceramic layers (2a-2b); at least two internal electrodes, each being disposed between a different pair of adjacent dielectric ceramic layers; and at least two external electrodes (5-7) each of which is electrically connected to a different internal electrode, wherein the dielectric ceramic layers comprise the dielectric of claim 13.

Regarding claim 14, the modified Hori et al. disclose each of the internal electrodes comprises nickel.

## Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Thomas whose telephone number is 571-272-1985. The examiner can normally be reached on Monday - Friday 6:30 AM - 3:45 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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11-9-06

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PRIMARY EXAMINER